

**SONY**

UHF Antenna

# AN-820A

## Operating Instructions

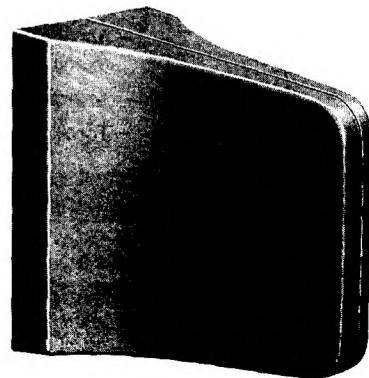
Before using the unit, please read this manual thoroughly and retain it for future reference.

## Manual de instrucciones

Antes de utilizar la antena, lea detenidamente este manual de instrucciones, y consérvelo para futuras referencias.

## Mode d'emploi

Lire attentivement ce mode d'emploi avant d'utiliser cet appareil et le conserver pour tout référence ultérieure.



Sony Corporation © 1991 Printed in Japan

## Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. AN-820A

Serial No. \_\_\_\_\_

## Overview

The AN-820A UHF antenna is designed to be connected to a WRR-820A/WRR-840A UHF synthesized diversity tuner or a WD-820A UHF antenna divider in a wireless microphone system. It has the following features:

- All components including the dipole antenna and amplifier are built into the unit, for easy handling and installation.
- The built-in amplifier, powered by the tuner or antenna divider connected to the unit, amplifies the output signal to compensate for cable transmission losses.
- The unit has a drip-proof structure permitting under-the-eaves outdoor installation.
- The simple shape of the unit with its smoothly sloping symmetrical sides is designed to match almost any location where it may be installed.

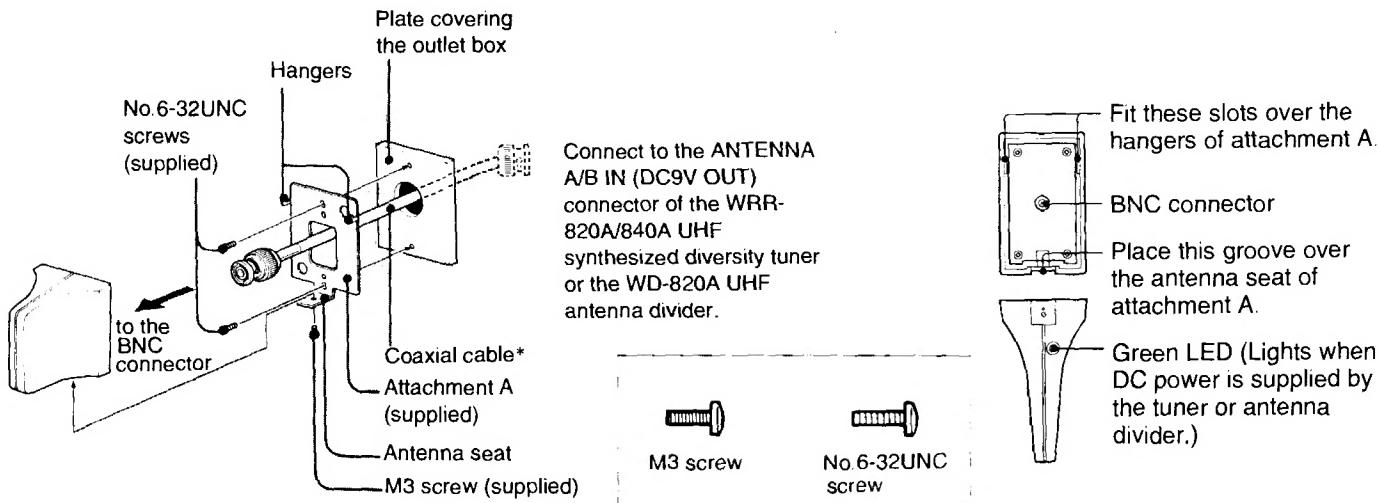
## Specifications

Frequency range	770 to 806 MHz
Antenna gain	10 dB ±3 dB
Output impedance	50 ohms
Voltage standing-wave ratio	Less than 3
Noise factor	Less than 6 dB
Third intermodulation	More than 60 dB (at 95 dB $\mu$ output)
Output connector	BNC-R type
Supply voltage	9 V DC
Current consumption	Less than 35 mA
Operating temperature	0°C to 50°C (32°F to 122°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions	70 x 117 x 132 mm (w/h/d) (2 7/8 x 4 5/8 x 5 1/4 inches)
Weight	About 250 g (9 oz)
Accessories supplied	Attachment A (1) Attachment B (1) Microphone stand screw (1) Microphone stand screw adaptor (PF 1/2 to NS 5/8) (1) Fixing screws (1 set)

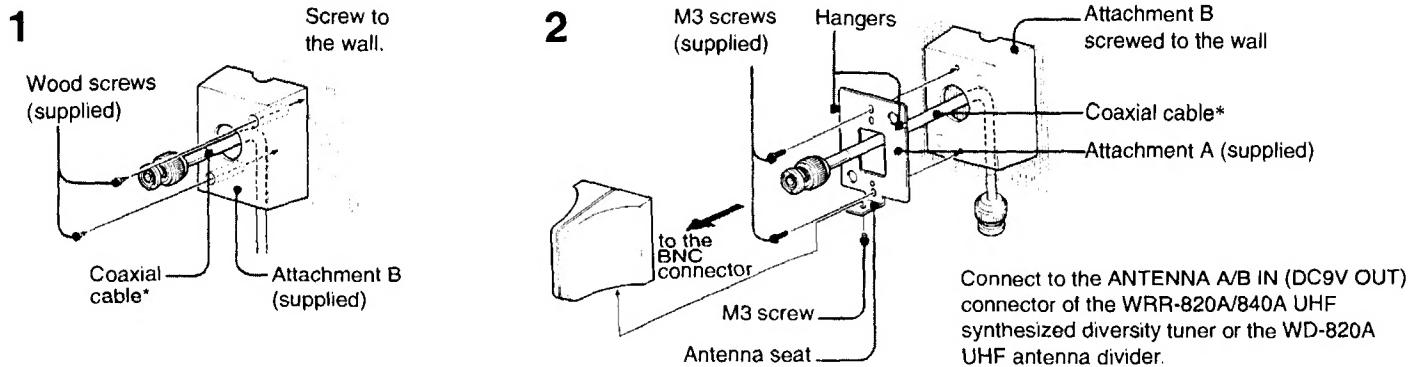
Design and specifications are subject to change without notice.

# Installation

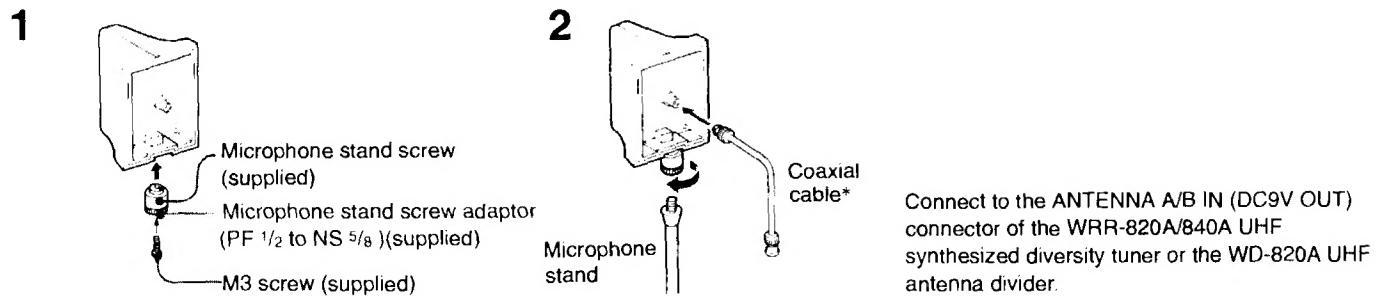
## Wall installation using built-in outlet box



## Wall installation

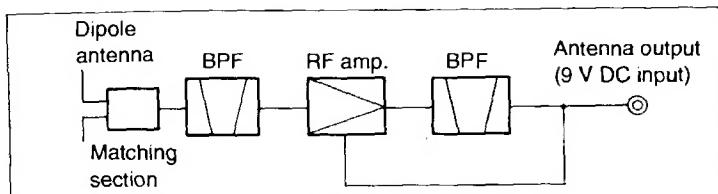


## Installation on a microphone stand



\* Use a 50-ohm cable, WBC-10B-5P to WBC-30B-5P or equivalent (at least RG-212/U).

## Block Diagram



## Precautions

- Always use two or more AN-820A units in pairs, installing each pair of units at least 1 m (3 feet) apart.
- Make sure the units installed are visible from where the wireless microphone or transmitter is used.
- Avoid installing the units:
  - near a window or metal paneling
  - immediately adjacent to electrical equipment, which may produce RF interference
  - where they are vulnerable to physical damage.